WEST Search History

Hide Items Restore Clear Cancel

DATE: Thursday, April 12, 2007

Hide?	<u>Set</u> Name	Query	<u>Hit</u> Count
	DB = 1	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=YES; OP=ADJ	
Γ		L84 and ((bore) same (parallel))	1
<u>.</u>	L84	L83 and ((open or opening or opened or gap or space or entrance or entry or access or insert\$4) same (bore or lower or bottom or below))	11
<u>. </u>	L83	L82 and (((solenoid\$4 or saddle) with (coil or winding or probe or antenna)) same (perpendicular\$3 or transverse or orthogonal\$4))	12
, F	L82	L81 and (((solenoid\$4 or saddle) same ((feed\$3 or fed or suppl\$4 or input\$4 or in-put\$4 or insert\$4) with (cable or channel\$3 or "line" or tub\$3))) same ((convey\$4 or trasport\$4 or transportation or moving or moved or movable or move or bringing or brought or bring or driv\$4 or inject\$4 or insert\$4 ((production or assembly) same (belt or "line"))) with (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous)))	15
	L81	((324/300-322.ccls.) or (600/407-435.ccls.))	17745
Ľ	L80	L79 and ((convey\$4 or trasport\$4 or transportation or moving or moved or movable or move or bringing or brought or bring or driv\$4 or inject\$4 or insert\$4 ((production or assembly) with (belt or "line"))) with (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous) with (volume or "ml"))	2
	L79	175 and (plug or socket\$4 or stopper)	6
r F	L78	L77 and (((solenoid\$4 or saddle) same ((feed\$3 or fed or suppl\$4 or input\$4 or in-put\$4 or insert\$4) with (cable or channel\$3 or "line" or tub\$3))) same ((convey\$4 or trasport\$4 or transportation or moving or moved or movable or move or bringing or brought or bring or driv\$4 or inject\$4 or insert\$4 ((production or assembly) same (belt or "line"))) with (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous)))	1
Γ	L77	L76 and ((convey\$4 or trasport\$4 or transportation or moving or moved or movable or move or bringing or brought or bring or driv\$4 or inject\$4 or insert\$4 ((production or assembly) same (belt or "line"))) with (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous))	. 6
Γ	L76	L75 and ((solenoid\$4 or saddle) same ((feed\$3 or fed or suppl\$4 or input\$4 or in-put\$4 or insert\$4) with (cable or channel\$3 or "line" or tub\$3)))	9
T .:	L75	L74 and (((solenoid\$4 or saddle) with (coil or winding or probe or antenna)) same (perpendicular\$3 or transverse or orthogonal\$4))	15
T .:	L74	L73 and (solenoid\$4 or saddle)	143
	L73	L72 and (perpendicular\$3 or transverse or orthogonal\$4)	453

	L72	L71 and (parallel)	539
$\Gamma_{\rm a}$	L71	L70 and (bore)	677
r [.]	L70	L60 and ((open or opening or opened or gap or space or entrance or entry or access or insert\$4) same (bore or lower or bottom or below))	2359
Г	L69	L46 and ((open or opening or opened or gap or space or entrance or entry or access or insert\$4) same (bore or lower or bottom or below))	1
Γ.	L68	L61 and 146	0
Γ.	L67	L66 and (((solenoid\$4 or saddle) with (coil or winding or probe or antenna)) same (perpendicular\$3 or transverse or orthogonal\$4))	11
Γ	L66	L65 and ((solenoid\$4 or saddle) with (coil or winding or probe or antenna))	49
Γ	L65	L64 and (solenoid\$4 or saddle)	127
Γ.	L64	L63 and (perpendicular\$3 or transverse or orthogonal\$4)	376
Γ	L63	L62 and (parallel)	429
Γ	L62	L61 and (bore)	511
	L61	L60 and ((open or opening or opened or gap or space or entrance or entry or access) same (lower or bottom or below))	1981
<u> </u>	L60	L4 and ((feed\$3 or fed or suppl\$4 or input\$4 or in-put\$4 or insert\$4) with (cable or channel\$3 or "line" or tub\$3))	3395
Γ	L59	L58 and ((solenoid\$4 or saddle) with (coil or winding or probe or antenna))	20
Г	L58	L57 and (plug with socket\$4)	98
Г	L57	L56 and ((solenoid\$4 or saddle or coil or winding or probe or antenna) with (exchang\$4 or exchangeable or interchang\$4 or interchangeable or interchang\$4 or replace\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4 or chang\$4 or changeable))	2385
Γ	L56	L1 and (plug or socket\$4)	17237
Γ	L55	5146166	16
	DB=	PGPB,USPT; PLUR=YES; OP=ADJ	
	L54	('5146166')![pn]	1
	DB=	USPT,PGPB; PLUR=YES; OP=ADJ	
<u> </u>	L53	('3911355' '4088944' '4511841' '4581583' '4859949' '5146166' '5302900' '5517856' '6563317' '20020135372' '20020196022')![pn]	11
		PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR = YES; OP = ADJ	
Γ.	L52	L48 and (warden.in.)	1
	L51	L50 and ((convey\$4 or trasport\$4 or transportation or moving or moved or movable or move or bringing or brought or bring or driv\$4 or inject\$4 or insert\$4 ((production or assembly) with (belt or "line"))) with (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous) with (volume or "ml"))	10
Γ	L50	L49 and ((measur\$4 or measurement or examin\$4 or examination or investigation or interest or analysis or analyz\$4 or region or area or zone) with (volume or "ml"))	102
	•	L48 and ((solenoid\$4 or saddle or coil or winding or probe or antenna) with	

	L49	(exchang\$4 or exchangeable or interchang\$4 or interchangeable or interchang\$4 or inter-chang\$4 or replace\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4 or chang\$4 or changeable))	205
	L48	fetzner	346
	L47	L42 and (fetzner)	4
Γ	L46	L45 and ((solenoid\$4 or saddle) with (exchang\$4 or exchangeable or interchang\$4 or interchang\$4 or interchang\$4 or replac\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or detach\$4 or re-mov\$4 or chang\$4 or chang\$6 o	. 1
	L45	L44 and (((measur\$4 or measurement or examin\$4 or examination or investigation or interest or analysis or analyz\$4 or region or area or zone) with (volume or "ml")) with (solenoid\$4 or saddle))	3
Γ	L44	L43 and ((measur\$4 or measurement or examin\$4 or examination or investigation or interest or analysis or analyz\$4 or region or area or zone) with (volume or "ml"))	48
Γ	L43	L42 and (solenoid\$4 or saddle)	58
Γ.	L42	L41 and (measur\$4 or measurement or examin\$4 or examination or investigation or interest or analysis or analyz\$4 or region or area or zone)	674
F	L41	L40 and ((convey\$4 or trasport\$4 or transportation or moving or moved or movable or move or bringing or brought or bring or driv\$4 or inject\$4 or insert\$4 ((production or assembly) with (belt or "line"))) with (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous) with (volume or "ml"))	675
Γ	L40	L39 and (volume or "ml")	7403
	L39	L38 and (exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-change\$4 or inter-chang\$4 or replace\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4 or chang\$4 or changeable)	8105
Γ.	L38	L37 and ((automatic\$4 or automat\$3) with (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous))	8128
Γ-	L37	L36 and (automatic\$4 or automat\$3)	22106
Γ.	L36	L35 and (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous)	51080
Γ.	L35	L2 and (convey\$4 or trasport\$4 or transportation or moving or moved or movable or move or bringing or brought or bring or driv\$4 or inject\$4 or insert\$4 ((production or assembly) with (belt or "line")))	52013
Γ.	L34	L33 and ((solenoid\$4 or saddle) with (probe or coil or antenna or winding) with (exchang\$4 or exchangeable or interchang\$4 or interchangeable or interchang\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4 or chang\$4 or changeable))	7
□	L33	L32 and ((automatic\$4 or automat\$3) with (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous))	471

Г	L32	L31 and ((exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-change\$4 or inter-chang\$4 or replace\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4 or chang\$4 or changeable)with (plug or socket\$4))	1357
Γ.	L31	L30 and (plug or socket\$4)	5494
-	L30	L29 and (exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-change\$4 or inter-chang\$4 or replace\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4 or chang\$4 or changeable)	42636
Г	L29	L28 and (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous)	43338
厂	L28	L1 and (automatic\$4 or automat\$3)	44135
Γ	L27	L23 and ((solenoid\$4 or saddle) with (probe or coil or antenna or winding) with (head) with (exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-change\$4 or inter-chang\$4 or replace\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4))	2
Γ.	L26	L25 and (((magnetic adj resonan\$2) or MRI or NMR) with (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous))	5
· [L25	L24 and (sample or tissue or subject or object or patient or substance or target or specim\$2 or solid\$3 or liquid or gas\$2 or gaseous)	7
Γ	L24	L23 and ((solenoid\$4 or saddle) with (probe or coil or antenna or winding) with (exchang\$4 or exchangeable or interchang\$4 or interchangeable or interchang\$4 or replace\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4))	7
Г	L23	L17 and ((exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-change\$4 or inter-chang\$4 or replace\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4) with (plug or socket\$4))	103
Γ	L22	L21 and (plug or socket\$4)	17
Γ.:	L21	L20 and (plug or socket\$4 or connect\$4)	81
Γ	L20	L19 and ((solenoid\$4 or saddle) with (probe or coil or antenna or winding) with (exchang\$4 or exchangeable or interchang\$4 or interchangeable or interchang\$4 or replace\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4))	84
	L19	L18 and (solenoid\$4 or saddle)	477
Г	L18	L17 and ((probe or coil or antenna or winding) with (exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-chang\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4))	1891
Γ.	L17	L16 and (exchang\$4 or exchangeable or interchang\$4 or interchangeable or inter-change\$4 or inter-chang\$4 or replace\$4 or replac\$4 or switch\$4 or detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or disconnect\$4)	2916
Γ	L16	L3 and ((probe or coil or antenna or winding) with (head))	3134

Γ.	L15	L14 not L12	12
Г	L14	L13 and ((solenoid\$4 or saddle) with (detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or individual\$2 or disconnect\$4))	38
Γ	L13	L6 and ((plug or socket\$4 or connect\$4) with (detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or individual\$2 or disconnect\$4))	413
1	L12	L11 and ((plug or socket\$4 or connect\$4) with (detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or individual\$2 or disconnect\$4))	26
Γ	L11	L10 and ((solenoid\$4 or saddle) with (detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or individual\$2 or disconnect\$4))	50
Γ	L10	L9 and (detach\$4 or remov\$4 or split\$4 or separat\$4 or de-tach\$4 or re-mov\$4 or individual\$2 or disconnect\$4)	439
Γ	L9	L7 and (plug or socket\$4 or connect\$4)	444
Γ	L8	L7 and (plug or socket\$4 or connect\$4)	444
Г	L7	L6 and ((feed\$3 or fed or suppl\$4 or input\$4 or in-put\$4 or insert\$4) with (cable or channel\$3 or "line"))	448
Г	L6	L5 and (sample or tissue or subject or object or patient or substance or target or specim\$2)	992
Γ	L5	L4 and (solenoid\$4 or saddle)	1005
Γ	L4	L3 and (convey\$4 or ((production or assembly) with (belt or "line")))	9645
Γ	L3	L2 and (feed\$3 or fed or suppl\$4 or input\$4 or in-put\$4 or insert\$4 or cable or channel\$3 or "line")	57335
	L2	L1 and (probe or coil or antenna or winding)	68633
Г	L1	((magnetic adi resonan\$2) or MRI or NMR)	249862

END OF SEARCH HISTORY

First Hit Clear Generate Collection Print Fwd Refs Bkwd Refs

Generate OACS

Search Results - Record(s) 1 through 15 of 15 returned.

1. Document ID: US 20070016003 A1

L75: Entry 1 of 15

File: PGPB

Jan 18, 2007.

Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20070016003

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070016003 A1

TITLE: Open architecture imaging apparatus and $\underline{\text{coil}}$ system for $\underline{\text{magnetic resonance}}$

imaging

PUBLICATION-DATE: January 18, 2007

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Piron; Cameron Anthony Toronto CA
Luginbuhl; Christopher Alexander Toronto CA
Plewes; Donald B. Toronto CA

US-CL-CURRENT: 600/415

Full	Title	Citation Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	ROMO	Втави Ве
r	2.	Document ID:	US 20	060119360	A1			-	•••••		

File: PGPB

L75: Entry 2 of 15 .

PGPUB-DOCUMENT-NUMBER: 20060119360 PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060119360 A1

TITLE: NMR spectrometer and NMR probe

PUBLICATION-DATE: June 8, 2006

INVENTOR-INFORMATION:

COUNTRY CITY NAME STATE Yamamoto; Hiroyuki Kokubunji JΡ Saitoh; Kazuo Kodaira JΡ JΡ Hasegawa; Haruhiro Kokubunji Ochi; Hisaaki Kodaira JΡ

US-CL-CURRENT: 324/318; 324/321

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMIC Draw De

☐ 3. Document ID: US 20060119359 A1

L75: Entry 3 of 15

File: PGPB

Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20060119359

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060119359 A1

TITLE: Nuclear magnetic resonance probe coil

PUBLICATION-DATE: June 8, 2006

INVENTOR-INFORMATION:

NAME CITY STATE · COUNTRY

Hasegawa; Haruhiro Kokubunji JP Ochi; Hisaaki Kodaira JP Yamamoto; Hiroyuki Kokubunji JP

Saitoh; Kazuo Kodaira

US-CL-CURRENT: 324/318

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims 1990 Draw De

1 4. Document ID: US 20060012368 A1

L75: Entry 4 of 15

File: PGPB

Jan 19, 2006

JΡ

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution $\underline{\mathsf{nmr}\ \mathsf{probe}}$ head for small sample volumes and method for

operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Volke; Frank St. Ingbert DE
Benecke; Martin Homberg DE

US-CL-CURRENT: 324/318; 324/321

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims RMC Draw De

5. Document ID: US 20050171427 A1

L75: Entry 5 of 15

File: PGPB

Aug 4, 2005

PGPUB-DOCUMENT-NUMBER: 20050171427

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050171427 A1

TITLE: Endoscopic examining apparatus particularly useful in MRI, a probe useful in

such apparatus, and a method of making such probe

PUBLICATION-DATE: August 4, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Nevo, Erez

Natanya

IL

Roth, Abraham

Kfar Hassidim

IL

US-CL-CURRENT: 600/424; 600/117

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KAMC	Drawe De
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6. Document ID: US 20050098718 A1

L75: Entry 6 of 15

File: PGPB

May 12, 2005

PGPUB-DOCUMENT-NUMBER: 20050098718

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050098718 A1

TITLE: Apparatus and method for ion cyclotron resonance mass spectrometry

PUBLICATION-DATE: May 12, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

O'Connor, Peter B

Hyde Park

MΑ

US

US-CL-CURRENT: <u>250/286</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims RMC Draw De

7. Document ID: US 20030187347 A1

L75: Entry 7 of 15

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030187347

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030187347 A1

TITLE: Endoscopic examining apparatus particularly useful in MRI, a probe useful in

such apparatus, and a method of making such probe

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Nevo, Erez

Natanya

IL

Roth, Abraham

Kfar Hassidim

IL

US-CL-CURRENT: 600/424

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Drawe De
•												

8. Document ID: US 20030127592 A1

L75: Entry 8 of 15

File: PGPB

Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030127592

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030127592 A1

TITLE: Apparatus and method for ion cyclotron resonance mass spectrometry

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

O'Connor, Peter B.

Hyde Park

MA

US

US-CL-CURRENT: <u>250/291</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMO	Drawe De

9. Document ID: US 7164269 B2

L75: Entry 9 of 15

File: USPT

Jan 16, 2007

US-PAT-NO: 7164269

DOCUMENT-IDENTIFIER: US 716,4269 B2

TITLE: Nuclear <u>magnetic resonance probe coil</u>

DATE-ISSUED: January 16, 2007

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20060119359 A1

June 8, 2006

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Hasegawa; Haruhiro Kokubunji JP
Ochi; Hisaaki Kodaira JP
Yamamoto; Hiroyuki Kokubunji JP
Saitoh; Kazuo Kodaira JP

US-CL-CURRENT: 324/318; 324/322

Full	Title Citation	Front	Review	Classification	Date	Reference			Claims	KOAC	Drave
· ·	<u> </u>					<u> </u>					· ·
								,			
	10. Docur	nent ID	: US 7	138801 B2							
L75: E	Entry 10 c	of 15		*		File:	USPT		Nov	21.	2006

US-PAT-NO: 7138801

DOCUMENT-IDENTIFIER: US 7138801 B2

TITLE: NMR spectrometer and NMR probe

DATE-ISSUED: November 21, 2006

PRIOR-PUBLICATION:

DOC-ID DATE

US 20060119360 A1 June 8, 2006

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Yamamoto; Hiroyuki Kokubunji JΡ Kodaira Saitoh; Kazuo JΡ Hasegawa; Haruhiro Kokubunji JΡ Ochi; Hisaaki Kodaira JΡ

US-CL-CURRENT: 324/318; 324/322

Full Title Citation Front	Review Classification C	ate Reference	Claims 10010	Drawd De
☐ 11. Document ID	: US 6720555 B2	,		
L75: Entry 11 of 15		File: USPT	Apr 13,	2004

US-PAT-NO: 6720555

DOCUMENT-IDENTIFIER: US 6720555 B2

TITLE: Apparatus and method for ion cyclotron resonance mass spectrometry

DATE-ISSUED: April 13, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

O'Connor; Peter B. Hyde Park MA

Record List Display Page 6 of 8

US-CL-CURRENT: 250/291

Full Title Citation Front Review Classification Date Reference Classification Date Reference Classification Date Reference

12. Document ID: US 6329139 B1

L75: Entry 12 of 15

File: USPT

Dec 11, 2001

US-PAT-NO: 6329139

DOCUMENT-IDENTIFIER: US 6329139 B1

TITLE: Automated sorting system for matrices with memory

DATE-ISSUED: December 11, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Nova; Michael P. Rancho Santa Fe CA
Lillig; John E. Alamo CA
Karunaratne; Kanchana Sanjaya Gunesekera San Diego CA
Ewing; William Sando CA
Satoda; Yozo San Diego CA
Potash; Hanan Austin TX

US-CL-CURRENT: 435/6; 209/597, 209/604, 702/19, 702/20

Full Title Citation Front Review Classification Date Reference

13. Document ID: US 6136274 A

L75: Entry 13 of 15

File: USPT

Oct 24, 2000

US-PAT-NO: 6136274

DOCUMENT-IDENTIFIER: US 6136274 A

TITLE: Matrices with memories in automated drug discovery and units therefor

DATE-ISSUED: October 24, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Nova; Michael P. Rancho Santa Fe CA
Lillig; John E. Poway CA
Karunaratne; Kanchana Sanjaya Gunesekera San Diego CA
O'Neil; Donald San Diego CA
Ewing; William San Diego CA
Satoda; Yozo San Diego CA

US-CL-CURRENT: 422/102; 422/101, 422/104, 435/288.4, 435/288.5, 435/297.1,

Record List Display

435/303.1, 435/305.2

Full Title Citation Front Review Classification Date Reference Claims KMC Drave De

14. Document ID: US 3564400 A

L75: Entry 14 of 15

File: USOC

Feb 16, 1971

Page 7 of 8

US-PAT-NO: 3564400

DOCUMENT-IDENTIFIER: US 3564400 A

TITLE: NUCLEAR MAGNETIC RESONANCE FLOWMETER EMPLOYING CERAMIC TUBE

DATE-ISSUED: February 16, 1971

INVENTOR-NAME: HEYDEN WILLIAM H VANDER; PIKE RONALD L ; TOSCHIK JOHN F

US-CL-CURRENT: 324/306

Full Title Citation Front Review Classification Date Reference

15. Document ID: US 2973471 A

L75: Entry 15 of 15

File: USOC

Feb 28, 1961

US-PAT-NO: 2973471

DOCUMENT-IDENTIFIER: US 2973471 A

TITLE: Analysis techniques based on nuclear magnetic resonance

DATE-ISSUED: February 28, 1961

INVENTOR-NAME: ARMISTEAD FONTAINE C; TIRICO ARTHUR L

US-CL-CURRENT: 324/303, 175/393, 175/404, 175/405.1, 175/50, 73/152.03, 73/152.11

Full Title Citation Front Review Classification Date Reference Claims 1000C Draw De Generate Collection Print Fwd Refs **Bkwd Refs** Generate OACS Clear Term Documents SADDLE 74647 SADDLES 14752 1335416 COIL 442907 COILS WINDING 734474

PROBES ANTENNA ANTENNAS TRANSVERSE (L74 AND (((SOLENOID\$4 OR SADDLE) WITH (COIL OR WINDING OR PROBE OR ANTENNA)) SAME (PERPENDICULAR\$3 OR TRANSVERSE OR	·	•
PROBES ANTENNA ANTENNAS TRANSVERSE (L74 AND (((SOLENOID\$4 OR SADDLE) WITH (COIL OR WINDING OR PROBE OR ANTENNA)) SAME (PERPENDICULAR\$3 OR TRANSVERSE OR	WINDINGS	248216
ANTENNA 405 ANTENNAS 97 TRANSVERSE 1304 (L74 AND (((SOLENOID\$4 OR SADDLE) WITH (COIL OR WINDING OR PROBE OR ANTENNA)) SAME (PERPENDICULAR\$3 OR TRANSVERSE OR	PROBE	404073
ANTENNAS 97 TRANSVERSE 1304 (L74 AND (((SOLENOID\$4 OR SADDLE) WITH (COIL OR WINDING OR PROBE OR ANTENNA)) SAME (PERPENDICULAR\$3 OR TRANSVERSE OR	PROBES	190023
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Search Results - Record(s) 1 through 9 of 9 returned.

☐ 1. Document ID: US 20060119360 A1

L76: Entry 1 of 9

File: PGPB

Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20060119360

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060119360 A1

TITLE: NMR spectrometer and NMR probe

PUBLICATION-DATE: June 8, 2006

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY JP Kokubunji Yamamoto; Hiroyuki Saitoh; Kazuo Kodaira JΡ JP Kokubunji Hasegawa; Haruhiro Ochi; Hisaaki Kodaira JΡ

US-CL-CURRENT: 324/318; 324/321

Full Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	ROIC	Drawi De
			,								

☐ 2. Document ID: US 20060119359 A1

L76: Entry 2 of 9

File: PGPB

Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20060119359

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060119359 A1

TITLE: Nuclear magnetic resonance probe coil

PUBLICATION-DATE: June 8, 2006

INVENTOR-INFORMATION:

CITY STATE COUNTRY NAME Hasegawa; Haruhiro Kokubunji JΡ JΡ Ochi; Hisaaki Kodaira Yamamoto; Hiroyuki Kokubunji JΡ Kodaira Saitoh; Kazuo JP

US-CL-CURRENT: 324/318

Full 1 Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | RMC | Draw De

☐ 3. Document ID: US 20060012368 A1

L76: Entry 3 of 9

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution nmr probe head for small sample volumes and method for

operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

JΡ

Volke; Frank

St. Ingbert

DE

Benecke; Martin

Homberg

DE

US-CL-CURRENT: 324/318; 324/321

Full Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	IOMC	Drave De

4. Document ID: US 7164269 B2

L76: Entry 4 of 9

File: USPT

Jan 16, 2007

US-PAT-NO: 7164269

DOCUMENT-IDENTIFIER: US 7164269 B2

TITLE: Nuclear magnetic resonance probe coil

DATE-ISSUED: January 16, 2007

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20060119359 A1.

Saitoh; Kazuo

June 8, 2006

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hasegawa; Haruhiro Kokubunji JP Ochi; Hisaaki Kodaira JP Yamamoto; Hiroyuki Kokubunji JP

Kodaira

US-CL-CURRENT: 324/318; 324/322

Full Title Citation Front Review Classification Date Reference Company Company Claims 1800C Draw De

5. Document ID: US 7138801 B2

L76: Entry 5 of 9

File: USPT

Nov 21, 2006

US-PAT-NO: 7138801

DOCUMENT-IDENTIFIER: US 7138801 B2

TITLE: NMR spectrometer and NMR probe

DATE-ISSUED: November 21, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20060119360 A1

June 8, 2006

INVENTOR-INFORMATION:

CITY ZIP CODE COUNTRY NAME STATE Yamamoto; Hiroyuki Kokubunji JΡ JΡ Saitoh; Kazuo Kodaira JΡ Hasegawa; Haruhiro Kokubunji Kodaira Ochi; Hisaaki JΡ

US-CL-CURRENT: 324/318; 324/322

Full Title Citation Front Review Classification Date Reference

☐ 6. Document ID: US 6329139 B1

L76: Entry 6 of 9

File: USPT

Dec 11, 2001

US-PAT-NO: 6329139

DOCUMENT-IDENTIFIER: US 6329139 B1

TITLE: Automated sorting system for matrices with memory

DATE-ISSUED: December 11, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Nova; Michael P. Rancho Santa Fe CA
Lillig; John E. Alamo CA
Karunaratne; Kanchana Sanjaya Gunesekera San Diego CA
Ewing; William San Diego CA
Satoda; Yozo San Diego CA

Potash; Hanan Austin TX

US-CL-CURRENT: 435/6; 209/597, 209/604, 702/19, 702/20

Full | Title | Citation | Front | Review | Classification | Date | Reference | Classification | Classification | Draws De

7. Document ID: US 6136274 A

L76: Entry 7 of 9

File: USPT

Oct 24, 2000

US-PAT-NO: 6136274

DOCUMENT-IDENTIFIER: US 6136274 A

TITLE: Matrices with memories in automated drug discovery and units therefor

DATE-ISSUED: October 24, 2000

INVENTOR-INFORMATION:

CITY STATE ZIP CODE COUNTRY NAME Nova; Michael P. Rancho Santa Fe CA Lillig; John E. CA Poway Karunaratne; Kanchana Sanjaya Gunesekera San Diego CA O'Neil; Donald San Diego CA Ewing; William San Diego CA Satoda; Yozo San Diego CA

US-CL-CURRENT: <u>422/102</u>; <u>422/101</u>, <u>422/104</u>, <u>435/288.4</u>, <u>435/288.5</u>, <u>435/297.1</u>, 435/303.1, 435/305.2

Full Title Citation Front Review Classification Date Reference

8. Document ID: US 3564400 A

L76: Entry 8 of 9

File: USOC

Feb 16, 1971

US-PAT-NO: 3564400

DOCUMENT-IDENTIFIER: US 3564400 A

TITLE: NUCLEAR MAGNETIC RESONANCE FLOWMETER EMPLOYING CERAMIC TUBE

DATE-ISSUED: February 16, 1971

INVENTOR-NAME: HEYDEN WILLIAM H VANDER; PIKE RONALD L ; TOSCHIK JOHN F

US-CL-CURRENT: 324/306

Full Title Citation Front Review Classification Date Reference Citation Claims NMC Draw De

☐ 9. Document ID: US 2973471 A

L76: Entry 9 of 9

File: USOC

Feb 28, 1961

US-PAT-NO: 2973471

DOCUMENT-IDENTIFIER: US 2973471 A

TITLE: Analysis techniques based on nuclear magnetic resonance

DATE-ISSUED: February 28, 1961

INVENTOR-NAME: ARMISTEAD FONTAINE C; TIRICO ARTHUR L

US-CL-CURRENT: 324/303, 175/393, 175/404, 175/405.1, 175/50, 73/152.03, 73/152.11

Generate Collection Print Fwd Refs Bkwd Re	fs Generate
Term	Documents
SADDLE	74647
SADDLES	14752
FED	1634209
FEDS	2403
CABLE	1018377
CABLES	366413
LINE	5766757
LINES	2842675
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SOLENOID	362126
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First Hit Clear Generate Collection Print Fwd Refs **Bkwd Refs** Generate OACS

Search Results - Record(s) 1 through 6 of 6 returned.

1. Document ID: US 20060119359 A1

L77: Entry 1 of 6 File: PGPB Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20060119359

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060119359 A1

TITLE: Nuclear magnetic resonance probe coil

PUBLICATION-DATE: June 8, 2006

INVENTOR-INFORMATION:

CITY STATE COUNTRY NAME JΡ Kokubunji Hasegawa; Haruhiro Ochi; Hisaaki Kodaira JP Kokubunji JΡ Yamamoto; Hiroyuki JΡ

Kodaira Saitoh; Kazuo

US-CL-CURRENT: 324/318

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2. Document ID: US 20060012368 A1

L77: Entry 2 of 6 File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution nmr probe head for small sample volumes and method for

operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

STATE COUNTRY NAME CITY

Volke; Frank St. Ingbert DE

DE Benecke; Martin Homberg

US-CL-CURRENT: 324/318; 324/321

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw. De

3. Document ID: US 7164269 B2

L77: Entry 3 of 6

File: USPT

Jan 16, 2007

US-PAT-NO: 7164269

DOCUMENT-IDENTIFIER: US 7164269 B2

TITLE: Nuclear magnetic resonance probe coil

DATE-ISSUED: January 16, 2007

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20060119359 A1

June 8, 2006

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Hasegawa; Haruhiro Kokubunji JP Ochi; Hisaaki Kodaira JΡ JΡ Yamamoto; Hiroyuki Kokubunji Saitoh; Kazuo Kodaira JΡ

US-CL-CURRENT: 324/318; 324/322

Full Title Citation Front Review Classification Date Reference (1995) 1995 1995 1995 1995 Claims KMC Draws De

☐ 4. Document ID: US 6329139 B1

L77: Entry 4 of 6

File: USPT

Dec 11, 2001

US-PAT-NO: 6329139

DOCUMENT-IDENTIFIER: US 6329139 B1

TITLE: Automated sorting system for matrices with memory

DATE-ISSUED: December 11, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Nova; Michael P. Rancho Santa Fe CA
Lillig; John E. Alamo CA
Karunaratne; Kanchana Sanjaya Gunesekera San Diego CA
Ewing; William Santa Fe CA
Satoda; Yozo San Diego CA
Potash; Hanan Austin TX

Feb 28, 1961

US-CL-CURRENT: 435/6; 209/597, 209/604, 702/19, 702/20

Full Title Citation Front Review Classification Date Reference Claims RMC Draw De

To 5. Document ID: US 6136274 A

L77: Entry 5 of 6 File: USPT Oct 24, 2000

US-PAT-NO: 6136274

DOCUMENT-IDENTIFIER: US 6136274 A

TITLE: Matrices with memories in automated drug discovery and units therefor

DATE-ISSUED: October 24, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Nova; Michael P. Rancho Santa Fe CA Lillig; John E. Poway CA. CA Karunaratne; Kanchana Sanjaya Gunesekera San Diego O'Neil; Donald San Diego CA Ewing; William San Diego CA Satoda; Yozo San Diego CA

US-CL-CURRENT: <u>422/102</u>; <u>422/101</u>, <u>422/104</u>, <u>435/288.4</u>, <u>435/288.5</u>, <u>435/297.1</u>, <u>435/303.1</u>, <u>435/305.2</u>

Full	Titl	e Citation	Front	Review	Classification	Date	Reference	i dia sama	Claims	IOMC	Draw, D
7									, , , , , , , , , , , , , , , , , , , 		
	6.	Docume	nt ID:	US 29	73471 A						

File: USOC

US-PAT-NO: 2973471

L77: Entry 6 of 6

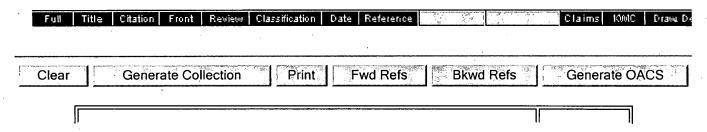
DOCUMENT-IDENTIFIER: US 2973471 A

TITLE: Analysis techniques based on nuclear magnetic resonance

DATE-ISSUED: February 28, 1961

INVENTOR-NAME: ARMISTEAD FONTAINE C; TIRICO ARTHUR L

US-CL-CURRENT: 324/303, 175/393, 175/404, 175/405.1, 175/50, 73/152.03, 73/152.11



Term	Documents
TRANSPORTATION	275177
TRANSPORTATIONS	• 539
MOVING	2605119
MOVINGS	111
MOVED	2549049
MOVEDS	7
MOVABLE	1891795
MOVABLES	84
MOVE	2774991
MOVES	1674528
BRINGING	391929
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Generate OACS

Search Results - Record(s) 1 through 1 of 1 returned.

1. Document ID: US 20060012368 A1

L78: Entry 1 of 1

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution nmr probe head for small sample volumes and method for

operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Volke; Frank

St. Ingbert

DE

Benecke; Martin

Homberg

DE

US-CL-CURRENT: 324/318; 324/321

	uments
	7464
	14752
1	634209
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2	842675
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First Hit Clear Generate Collection Print Fwd Refs Bkwd Refs

Generate OACS

Search Results - Record(s) 1 through 6 of 6 returned.

1. Document ID: US 20070016003 A1

L79: Entry 1 of 6

File: PGPB

Jan 18, 2007

PGPUB-DOCUMENT-NUMBER: 20070016003

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070016003 A1

TITLE: Open architecture imaging apparatus and coil system for magnetic resonance

imaging

PUBLICATION-DATE: January 18, 2007

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY
Piron; Cameron Anthony Toronto CA
Luginbuhl; Christopher Alexander Toronto CA
Plewes; Donald B. Toronto CA

US-CL-CURRENT: 600/415

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K000C	Drawe De
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☐ 2. Document ID: US 20060012368 A1

L79: Entry 2 of 6

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution nmr probe head for small sample volumes and method for

operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Volke; Frank St. Ingbert DE Benecke; Martin Homberg DE

US-CL-CURRENT: <u>324</u>/<u>318</u>; <u>324</u>/<u>321</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 3. Document ID: US 20050171427 A1

L79: Entry 3 of 6

File: PGPB

Aug 4, 2005

PGPUB-DOCUMENT-NUMBER: 20050171427

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050171427 A1

TITLE: Endoscopic examining apparatus particularly useful in MRI, a probe useful in such apparatus, and a method of making such probe

PUBLICATION-DATE: August 4, 2005

INVENTOR-INFORMATION:

Roth, Abraham

NAME CITY

STATE COUNTRY

IL

Nevo, Erez Natanya

Kfar Hassidim IL

US-CL-CURRENT: 600/424; 600/117

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims RMC Draw De

4. Document ID: US 20030187347 A1

L79: Entry 4 of 6

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030187347

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030187347 A1

TITLE: Endoscopic examining apparatus particularly useful in MRI, a probe useful in

such apparatus, and a method of making such probe

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Nevo, Erez Natanya IL

Roth, Abraham Kfar Hassidim IL

US-CL-CURRENT: 600/424

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims RMC Draw De

5. Document ID: US 6329139 B1

L79: Entry 5 of 6 File: USPT Dec 11, 2001

US-PAT-NO: 6329139

DOCUMENT-IDENTIFIER: US 6329139 B1

TITLE: Automated sorting system for matrices with memory

DATE-ISSUED: December 11, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY
Nova: Michael P Rancho Santa Fe CA

Nova; Michael P. Rancho Santa Fe CA Lillig; John E. Alamo CA Karunaratne; Kanchana Sanjaya Gunesekera San Diego CA CA Ewing; William San Diego Satoda; Yozo San Diego CA Potash; Hanan ΤX Austin

US-CL-CURRENT: 435/6; 209/597, 209/604, 702/19, 702/20

Ī	Full	Title	Citation Front	Review	Classification	Date	Reference		Claims	KWC	Drawe De
-	Г	6.	Document ID:	US 29	73471 A						•

File: USOC

Feb 28, 1961

US-PAT-NO: 2973471

L79: Entry 6 of 6

DOCUMENT-IDENTIFIER: US 2973471 A

TITLE: Analysis techniques based on nuclear magnetic resonance

DATE-ISSUED: February 28, 1961

INVENTOR-NAME: ARMISTEAD FONTAINE C; TIRICO ARTHUR L

US-CL-CURRENT: 324/303, 175/393, 175/404, 175/405.1, 175/50, 73/152.03, 73/152.11

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SOCKETAAND	1
SOCKETABL	1
SOCKETABLE	80
SOCKETABLI	1
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First Hit Clear Generate Collection Print Fwd Refs Bkwd Refs

Generate OACS

Search Results - Record(s) 1 through 2 of 2 returned.

1. Document ID: US 20070016003 A1

L80: Entry 1 of 2

File: PGPB

Jan 18, 2007

PGPUB-DOCUMENT-NUMBER: 20070016003

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070016003 A1

TITLE: Open architecture imaging apparatus and $\underline{\text{coil}}$ system for $\underline{\text{magnetic resonance}}$

imaging

PUBLICATION-DATE: January 18, 2007

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Piron; Cameron Anthony Toronto CA Luginbuhl; Christopher Alexander Toronto CA

Plewes; Donald B. Toronto

US-CL-CURRENT: 600/415

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Drave De

2. Document ID: US 20060012368 A1

L80: Entry 2 of 2

File: PGPB

Jan 19, 2006

CA

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution nmr probe head for small sample volumes and method for

operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Volke; Frank St. Ingbert DE

Benecke; Martin Homberg DE

US-CL-CURRENT: 324/318; 324/321

Generate Collection Print Fwd Refs Bkwd Re	s Genera
Term	Documents
RANSPORTATION	275177
RANSPORTATIONS	539
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10VED	2549049
10VEDS .	7
OVABLE	1891795
10VABLES	84
10VE	2774991
10VES	1674528
BRINGING	391929
(L79 AND ((CONVEY\$4 OR TRASPORT\$4 OR TRANSPORTATION OR MOVING OR MOVED OR MOVABLE OR MOVE OR BRINGING OR BROUGHT OR BRING OR DRIV\$4 OR INJECT\$4 OR INSERT\$4 ((PRODUCTION OR ASSEMBLY) WITH (BELT OR "LINE"))) WITH (SAMPLE OR TISSUE OR SUBJECT OR OBJECT OR PATIENT OR SUBSTANCE OR TARGET OR SPECIM\$2 OR OLID\$3 OR LIQUID OR GAS\$2 OR GASEOUS) WITH (VOLUME OR 'ML"))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	DR .

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Generate OACS

Search Results - Record(s) 1 through 15 of 15 returned.

1. Document ID: US 20060186886 A1

L82: Entry 1 of 15

File: PGPB

Aug 24, 2006

PGPUB-DOCUMENT-NUMBER: 20060186886

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060186886 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: August 24, 2006

INVENTOR-INFORMATION:

STATE CITY COUNTRY NAME Okada; Michiya Mito Hitachi JΡ Wakuda; Tsuyoshi JΡ Kakugawa; Shigeru Hitachi Hitachi JΡ Morita; Hiroshi Aihara; Katsuzo Hitachiota JΡ

US-CL-CURRENT: 324/321; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawe De
								-				
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2. Document ID: US 20060012368 A1

L82: Entry 2 of 15

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution nmr probe head for small sample volumes and method for

operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Volke; Frank St. Ingbert DE Benecke; Martin Homberg DE Record List Display Page 2 of 8

US-CL-CURRENT: 324/318; 324/321

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

3. Document ID: US 20050189944 A1

L82: Entry 3 of 15

File: PGPB

Sep 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050189944

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050189944 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: September 1, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Okada, Michiya Mito JΡ Wakuda, Tsuyoshi Hitachi JΡ Kakugawa, Shigeru JΡ Hitachi Morita, Hiroshi Hitachi JΡ Aihara, Katsuzo Hitachiota JP

US-CL-CURRENT: 324/321

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims RMC Draw De

4. Document ID: US 20050122114 A1

L82: Entry 4 of 15

File: PGPB

Jun 9, 2005

PGPUB-DOCUMENT-NUMBER: 20050122114

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050122114 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: June 9, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Okada, Michiya Mito JΡ Wakuda, Tsuyoshi Hitachi JΡ JΡ Kakugawa, Shigeru Hitachi Morita, Hiroshi Hitachi JΡ Aihara, Katsuzo Hitachiota JΡ

US-CL-CURRENT: 324/321; 324/318

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims RMC Draw. D.

☐ 5. Document ID: US 20030076104 A1

L82: Entry 5 of 15

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030076104

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030076104 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

CITY STATE COUNTRY NAME Okada, Michiya Mito JΡ JΡ Wakuda, Tsuyoshi Hitachi JΡ Kakugawa, Shigeru Hitachi JΡ Morita, Hiroshi Hitachi Aihara, Katsuzo JP Hitachiota

US-CL-CURRENT: 324/321; 324/312, 324/318

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims RMC Draw De

☐ 6. Document ID: US 20030076103 A1

L82: Entry 6 of 15

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030076103

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030076103 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

CITY STATE COUNTRY NAME Okada, Michiya Mito JP Hitachi JP Wakuda, Tsuyoshi JΡ Kakugawa, Shigeru Hitachi Morita, Hiroshi Hitachi JP Aihara, Katsuzo Hitachiota JΡ

US-CL-CURRENT: 324/321; 324/307, 324/318

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

7. Document ID: US 7190167 B2

L82: Entry 7 of 15

File: USPT

Mar 13, 2007

US-PAT-NO: 7190167

DOCUMENT-IDENTIFIER: US 7190167 B2

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

DATE-ISSUED: March 13, 2007

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20060186886 A1

August 24, 2006

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY JΡ Okada; Michiya Mito Wakuda; Tsuyoshi Hitachi JΡ Kakugawa; Shigeru Hitachi JΡ Morita; Hiroshi Hitachi JΡ JΡ Aihara; Katsuzo Hitachiota

US-CL-CURRENT: 324/321

Ī	Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw, De

□ 8. Document ID: US 7187173 B1

L82: Entry 8 of 15

File: USPT

Mar 6, 2007

US-PAT-NO: 7187173

DOCUMENT-IDENTIFIER: US 7187173 B1

TITLE: Multi-coil NMR probe with nonmagnetic diodes

DATE-ISSUED: March 6, 2007

INVENTOR-INFORMATION:

CITY STATE ZIP CODE COUNTRY NAME Raftery; Daniel West Lafayette ΙN US Santini; Robert E. West Lafayette ΙN US Macnaughtan; Megan A. Athens GΑ US

US-CL-CURRENT: 324/318; 324/319

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	1000C Draw. D).

☐ 9. Document ID: US 7046007 B2

L82: Entry 9 of 15

File: USPT

May 16, 2006

US-PAT-NO: 7046007

DOCUMENT-IDENTIFIER: US 7046007 B2

TITLE: Nuclear magnetic resonance spectrometer using split magnets

DATE-ISSUED: May 16, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050122114 A1

June 9, 2005

INVENTOR-INFORMATION:

CITY STATE ZIP CODE COUNTRY NAME Okada; Michiya Mito JΡ JΡ Wakuda; Tsuyoshi Hitachi Kakugawa; Shigeru Hitachi JP Morita; Hiroshi Hitachi JΡ Aihara; Katsuzo Hitachiota JΡ

US-CL-CURRENT: 324/321

ull	Title	Citation	Frent	Review	Classification	Date	Reference	la 2	 Claims	ROMO	Отами Ое

☐ 10. Document ID: US 7026817 B2

L82: Entry 10 of 15

File: USPT

Apr 11, 2006

US-PAT-NO: 7026817

DOCUMENT-IDENTIFIER: US 7026817 B2

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

DATE-ISSUED: April 11, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050189944 A1

September 1, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Okada; Michiya Mito JΡ Wakuda; Tsuyoshi Hitachi JΡ Kakugawa; Shigeru Hitachi JP Morita; Hiroshi Hitachi JΡ Aihara; Katsuzo Hitachiota JΡ

Record List Display Page 6 of 8

US-CL-CURRENT: 324/321

11. Document ID: US 6897657 B2

L82: Entry 11 of 15

File: USPT

May 24, 2005

US-PAT-NO: 6897657

DOCUMENT-IDENTIFIER: US 6897657 B2

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

DATE-ISSUED: May 24, 2005

INVENTOR-INFORMATION:

ZIP CODE NAME CITY STATE COUNTRY Okada; Michiya Mito JΡ Wakuda; Tsuyoshi Hitachi JP Kakugawa; Shigeru Hitachi JP Morita; Hiroshi Hitachi JΡ Hitachiota JΡ Aihara; Katsuzo

US-CL-CURRENT: 324/321

Full Title Citation Front Review Classification Date Reference Programme (Programme Claims KMC Draws De

12. Document ID: US 6888352 B2

L82: Entry 12 of 15

File: USPT

May 3, 2005

US-PAT-NO: 6888352

DOCUMENT-IDENTIFIER: US 6888352 B2

TITLE: Nuclear magnetic resonance spectrometer using split magnets

DATE-ISSUED: May 3, 2005

INVENTOR-INFORMATION:

CITY STATE ZIP CODE COUNTRY NAME JΡ Okada; Michiya Mito Hitachi JΡ Wakuda; Tsuyoshi JΡ Kakugawa; Shigeru Hitachi Hitachi Morita; Hiroshi JΡ Aihara; Katsuzo Hitachiota JΡ

US-CL-CURRENT: <u>324</u>/<u>321</u>

Full Title Citation Front Review Classification Date Reference

13. Document ID: US 6320384 B1

L82: Entry 13 of 15

File: USPT

Nov 20, 2001

US-PAT-NO: 6320384

DOCUMENT-IDENTIFIER: US 6320384 B1

TITLE: Thermal buffering of cross-coils in high-power NMR decoupling

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Doty; David F.

Columbia

SC

29229-4339

Entzminger, Jr.; George

Columbia :

SC

29223

US-CL-CURRENT: 324/321; 324/322

Full T	itle Citation	Front	Review	Classification	Date	Reference	1580	33.1	Claims	IOMO Drawe De

14. Document ID: US 6130537 A

L82: Entry 14 of 15

File: USPT

Oct 10, 2000

US-PAT-NO: 6130537

DOCUMENT-IDENTIFIER: US 6130537 A

TITLE: HR MAS NMR coils with magic angle capacitors

DATE-ISSUED: October 10, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Doty; F David

Columbia

SC

Yang; Yungan

Columbia

SC

US-CL-CURRENT: 324/318; 324/321

Full Title Citation Front Review Classification Date Reference (2007) Claims KMC Draw De

☐ 15. Document ID: US 4556848 A

L82: Entry 15 of 15

File: USPT

Dec 3, 1985

US-PAT-NO: 4556848

DOCUMENT-IDENTIFIER: US 4556848 A

TITLE: Point sensitive NMR imaging system using a magnetic field configuration with a spatial minimum

http://jupiter:9000/bin/gate.exe?f=TOC&state=mdtrle.90&ref=82&dbname=PGPB,USPT,US... 4/12/07

DATE-ISSUED: December 3, 1985

INVENTOR-INFORMATION:

NAME

CITY .

STATE ZIP CODE

COUNTRY

Eberhard; Philippe H.

El Cerrito

CA

US-CL-CURRENT: 324/309; 324/307

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FE	DS	2403
CA	BLE	1018377
CA	BLES	366413
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Search Results - Record(s) 1 through 12 of 12 returned.

☐ 1. Document ID: US 20060186886 A1

L83: Entry 1 of 12

File: PGPB

Aug 24, 2006

PGPUB-DOCUMENT-NUMBER: 20060186886

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060186886 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution.

PUBLICATION-DATE: August 24, 2006

INVENTOR-INFORMATION:

CITY STATE COUNTRY NAME Okada; Michiya Mito JP Hitachi JP Wakuda; Tsuyoshi Kakugawa; Shigeru Hitachi JΡ Hitachi Morita; Hiroshi JΡ Aihara; Katsuzo Hitachiota JΡ

US-CL-CURRENT: 324/321; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	1004C	Drawe De

2. Document ID: US 20060012368 A1

L83: Entry 2 of 12

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution nmr probe head for small sample volumes and method for

operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Volke; Frank St. Ingbert DE Benecke; Martin Homberg DE Record List Display Page 2 of 7

US-CL-CURRENT: 324/318; 324/321

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

7. 3. Document ID: US 20050189944 A1

L83: Entry 3 of 12

File: PGPB

Sep 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050189944

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050189944 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: September 1, 2005

INVENTOR-INFORMATION:

CITY STATE COUNTRY NAME Okada, Michiya Mito JΡ Hitachi JΡ Wakuda, Tsuyoshi. JP Kakugawa, Shigeru Hitachi JΡ Morita, Hiroshi Hitachi JP Aihara, Katsuzo Hitachiota

US-CL-CURRENT: 324/321

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims 13MC Draw De

☐ 4. Document ID: US 20050122114 A1

L83: Entry 4 of 12

File: PGPB

Jun 9, 2005

PGPUB-DOCUMENT-NUMBER: 20050122114

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050122114 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: June 9, 2005

INVENTOR-INFORMATION:

STATE COUNTRY NAME CITY Okada, Michiya Mito JP Wakuda, Tsuyoshi Hitachi JΡ JΡ Kakugawa, Shigeru Hitachi Hitachi JP Morita, Hiroshi Aihara, Katsuzo Hitachiota JΡ

US-CL-CURRENT: 324/321; 324/318

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Do

5. Document ID: US 7190167 B2

L83: Entry 5 of 12

File: USPT

Mar 13, 2007

US-PAT-NO: 7190167

DOCUMENT-IDENTIFIER: US 7190167 B2

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

DATE-ISSUED: March 13, 2007

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20060186886 A1

August 24, 2006

INVENTOR-INFORMATION:

ZIP CODE COUNTRY NAME CITY STATE JΡ Okada; Michiya Mito Wakuda; Tsuyoshi . Hitachi JΡ Kakugawa; Shigeru Hitachi JP Morita; Hiroshi Hitachi JΡ Aihara; Katsuzo Hitachiota JP

US-CL-CURRENT: 324/321

Full Title Citation Front Review Classification Date Reference Claims Review Claims RMC Draws De

6. Document ID: US 7187173 B1

L83: Entry 6 of 12

File: USPT

Mar 6, 2007

US-PAT-NO: 7187173

DOCUMENT-IDENTIFIER: US 7187173 B1

TITLE: Multi-coil NMR probe with nonmagnetic diodes

DATE-ISSUED: March 6, 2007

INVENTOR-INFORMATION:

ZIP CODE COUNTRY NAME CITY STATE Raftery; Daniel West Lafayette ΙN US Santini; Robert E. West Lafayette ΙN US Macnaughtan; Megan A. Athens GA US

US-CL-CURRENT: 324/318; 324/319

Full Title Citation Front Review Classification Date Reference 💢 💯 🚾 Claims 10/00 Draw. De

7. Document ID: US 7046007 B2

L83: Entry 7 of 12

File: USPT

May 16, 2006

US-PAT-NO: 7046007

DOCUMENT-IDENTIFIER: US 7046007 B2

TITLE: Nuclear magnetic resonance spectrometer using split magnets

DATE-ISSUED: May 16, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050122114 A1

June 9, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Okada; Michiya JΡ Mito Wakuda; Tsuyoshi Hitachi JΡ Kakugawa; Shigeru Hitachi JΡ Morita; Hiroshi Hitachi JΡ Aihara; Katsuzo Hitachiota JΡ

US-CL-CURRENT: 324/321

Full Title Citation Front Review Classification	Date Reference		Claims I	OMC Draw De
☐ 8. Document ID: US 7026817 B2				
L83: Entry 8 of 12	File: U	JSPT .	Apr 1	1, 2006

US-PAT-NO: 7026817

DOCUMENT-IDENTIFIER: US 7026817 B2

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

DATE-ISSUED: April 11, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050189944 A1

September 1, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE ·COUNTRY Okada; Michiya Mito Wakuda; Tsuyoshi Hitachi JΡ Kakugawa; Shigeru Hitachi JΡ Morita; Hiroshi Hitachi JΡ

Record List Display

Page 5 of 7

Aihara; Katsuzo

Hitachiota

JΡ

JΡ

US-CL-CURRENT: 324/321

Full Title Citation Front Review Classification	n Date Reference	Claims KMC Draw De
9. Document ID: US 6897657 B2		
L83: Entry 9 of 12	File: USPT	May 24, 2005

US-PAT-NO: 6897657

DOCUMENT-IDENTIFIER: US 6897657 B2

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

DATE-ISSUED: May 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okada; Michiya	Mito		,	JP
Wakuda; Tsuyoshi	Hitachi			JP
Kakugawa; Shigeru	Hitachi			JP
Morita; Hiroshi	Hitachi			JР
Aihara; Katsuzo	Hitachiota			JP

US-CL-CURRENT: 324/321

Full Title Citation Front	Review Classification D.	ate Reference	en a grant de la companya de la comp	Claims 1800C Draw
☐ 10. Document ID	: US 6888352 B2	•		
L83: Entry 10 of 12		File: US	SPT	May 3, 2005
US-PAT-NO: 6888352 DOCUMENT-IDENTIFIER: US	6888352 B2		٠	
TITLE: Nuclear magnetic	resonance spectre	ometer using	split magnet	s
DATE-ISSUED: May 3, 2009	5			
INVENTOR-INFORMATION:				
NAME	CITY	STATE	ZIP CODE	COUNTRY
Okada; Michiya	Mito			JP
Wakuda; Tsuyoshi	Hitachi			JP
Kakugawa; Shigeru	Hitachi	•		JP
Morita; Hiroshi	Hitachi			JP ·

US-CL-CURRENT: <u>324</u>/<u>321</u>

Aihara; Katsuzo

Hitachiota

Full | Title | Citation | Front | Review | Classification | Date | Reference | Հայաստանի | Claims | KMIC | Drawd De

11. Document ID: US 6320384 B1

L83: Entry 11 of 12

File: USPT

Nov 20, 2001

US-PAT-NO: 6320384

DOCUMENT-IDENTIFIER: US 6320384 B1

TITLE: Thermal buffering of cross-coils in high-power NMR decoupling

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Doty; David F.

Columbia

SC

29229-4339

Entzminger, Jr.; George

Columbia

SC

29223

US-CL-CURRENT: <u>324/321</u>; <u>324/322</u>

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | Claims | KWIC | Draw, Do

☐ 12. Document ID: US 6130537 A

L83: Entry 12 of 12

File: USPT

Oct 10, 2000

US-PAT-NO: 6130537

DOCUMENT-IDENTIFIER: US 6130537 A

TITLE: HR MAS NMR coils with magic angle capacitors

DATE-ISSUED: October 10, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Doty; F David

Columbia

SC

Yang; Yungan

Columbia

SC

US-CL-CURRENT: 324/318; 324/321

Full Title Citation Front Review Classification Date Reference Claims Review Draws Described Claims Review Described Claims Re

SADDLES	14752
COIL	1335416
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WINDING	734474
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PROBES	190023
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Previous Page Next Page Go to Doc#

Hit List

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Search Results - Record(s) 1 through 11 of 11 returned.

☐ 1. Document ID: US 20060186886 A1

L84: Entry 1 of 11

File: PGPB

Aug 24, 2006

PGPUB-DOCUMENT-NUMBER: 20060186886

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060186886 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: August 24, 2006

INVENTOR-INFORMATION:

CITY STATE COUNTRY NAME Okada; Michiya JΡ Mito Wakuda; Tsuyoshi Hitachi JΡ JΡ Hitachi Kakugawa; Shigeru Morita; Hiroshi Hitachi JΡ Aihara; Katsuzo Hitachiota JP

US-CL-CURRENT: <u>324/321</u>; <u>324/318</u>

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Full Title Citation	Front Review	Classification	Date	Reference	Sequences	Attachments	Claims	ROMO	Drawe De

2. Document ID: US 20060012368 A1

L84: Entry 2 of 11

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution nmr probe head for small sample volumes and method for

operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Volke; Frank St. Ingbert DE
Benecke; Martin Homberg DE

US-CL-CURRENT: 324/318; 324/321

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims RMIC Draw. De

- ☐ 3. Document ID: US 20050189944 A1

L84: Entry 3 of 11

File: PGPB

Sep 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050189944

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050189944 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: September 1, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Okada, Michiya Mito JΡ Hitachi JΡ Wakuda, Tsuyoshi Kakugawa, Shigeru JΡ Hitachi JΡ Morita, Hiroshi Hitachi Aihara, Katsuzo JΡ Hitachiota

US-CL-CURRENT: 324/321

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims IOMC Draw De

4. Document ID: US 20050122114 A1

L84: Entry 4 of 11

File: PGPB

Jun 9, 2005

PGPUB-DOCUMENT-NUMBER: 20050122114

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050122114 A1

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

PUBLICATION-DATE: June 9, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Okada, Michiya Mito JΡ Wakuda, Tsuyoshi Hitachi JP Kakugawa, Shigeru Hitachi JΡ Morita, Hiroshi Hitachi JΡ Aihara, Katsuzo Hitachiota JP

US-CL-CURRENT: 324/321; 324/318

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims 1000C Draw De

5. Document ID: US 7190167 B2

L84: Entry 5 of 11

File: USPT

Mar 13, 2007

US-PAT-NO: 7190167

DOCUMENT-IDENTIFIER: US 7190167 B2

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

DATE-ISSUED: March 13, 2007

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20060186886 A1

August 24, 2006

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Okada; Michiya Mito JΡ Wakuda; Tsuyoshi Hitachi JΡ Hitachi JΡ Kakugawa; Shigeru Morita; Hiroshi Hitachi JΡ Aihara; Katsuzo Hitachiota JΡ

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	\$45, X	Comment of the Comment	Claims	KWC	Draw, De
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6. Document ID: US 7187173 B1

L84: Entry 6 of 11

File: USPT

Mar 6, 2007

US-PAT-NO: 7187173

DOCUMENT-IDENTIFIER: US 7187173 B1

TITLE: Multi-coil NMR probe with nonmagnetic diodes

DATE-ISSUED: March 6, 2007

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY
Raftery; Daniel West Lafayette IN US
Santini; Robert E. West Lafayette IN US

Macnaughtan; Megan A.

Athens GA

US

US-CL-CURRENT: 324/318; 324/319

Full Title Citation Front Review Classification Date Reference

7. Document ID: US 7046007 B2

L84: Entry 7 of 11

File: USPT

May 16, 2006

US-PAT-NO: 7046007

DOCUMENT-IDENTIFIER: US 7046007 B2

TITLE: Nuclear magnetic resonance spectrometer using split magnets

DATE-ISSUED: May 16, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050122114 A1

June 9, 2005

INVENTOR-INFORMATION:

ZIP CODE NAME CITY STATE COUNTRY JΡ Okada; Michiya Mito Wakuda; Tsuyoshi Hitachi JΡ Kakugawa; Shigeru Hitachi JP. Morita; Hiroshi JΡ Hitachi Aihara; Katsuzo Hitachiota JΡ

US-CL-CURRENT: 324/321

Full Title Citatio	n Front Review	Classification	Date Reference	Claims	IOMC Draw De

8. Document ID: US 7026817 B2

L84: Entry 8 of 11

File: USPT

Apr 11, 2006

US-PAT-NO: 7026817

DOCUMENT-IDENTIFIER: US 7026817 B2

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

DATE-ISSUED: April 11, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050189944 A1

September 1, 2005

INVENTOR-INFORMATION:

NAME ZIP CODE CITY STATE COUNTRY Okada; Michiya Mito JΦ Wakuda; Tsuyoshi Hitachi JΡ Kakugawa; Shigeru JΡ Hitachi Morita; Hiroshi Hitachi JP

Aihara; Katsuzo

Hitachiota

JP

US-CL-CURRENT: 324/321

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9. Document ID: US 6897657 B2

L84: Entry 9 of 11

File: USPT

May 24, 2005

US-PAT-NO: 6897657

DOCUMENT-IDENTIFIER: US 6897657 B2

TITLE: Nuclear magnetic resonance spectrometer for liquid-solution

DATE-ISSUED: May 24, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Okada; Michiya Mito JΡ Wakuda; Tsuyoshi Hitachi JΡ Kakugawa; Shigeru Hitachi JΡ JΡ Morita; Hiroshi Hitachi Aihara; Katsuzo Hitachiota JP

US-CL-CURRENT: 324/321

Fu	11	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KMC	Drawu De
									 			
. г	_	10	Docum	ent ID:	US 6	888352 B2		4				

1 10. Document 1D: US 6888352 B2

L84: Entry 10 of 11

File: USPT

May 3, 2005

US-PAT-NO: 6888352

DOCUMENT-IDENTIFIER: US 6888352 B2

TITLE: Nuclear magnetic resonance spectrometer using split magnets

DATE-ISSUED: May 3, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Okada; Michiya Mito JΡ Wakuda; Tsuyoshi Hitachi Kakugawa; Shigeru Hitachi JΡ Morita; Hiroshi Hitachi JΡ Aihara; Katsuzo Hitachiota JΡ

US-CL-CURRENT: 324/321

Full Title Citation Front Review Classification Date Reference City Claims KWC Drava De

11. Document ID: US 6320384 B1

L84: Entry 11 of 11

File: USPT

Nov 20, 2001

US-PAT-NO: 6320384

DOCUMENT-IDENTIFIER: US 6320384 B1

TITLE: Thermal buffering of cross-coils in high-power NMR decoupling

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Doty; David F.

Columbia

SC

29229-4339

Entzminger, Jr.; George

Columbia

SC

29223

US-CL-CURRENT: 324/321; 324/322

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OPEN	3643984
OPENS	625606
OPENING ·	3748910
OPENINGS	1318177
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GAP	1147753
GAPS	329485
SPACE	3315369
SPACES	570265
ENTRANCE	350521
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Search Results - Record(s) 1 through 1 of 1 returned.

1. Document ID: US 20060012368 A1

L85: Entry 1 of 1

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012368 A1

TITLE: High resolution nmr probe head for small sample volumes and method for

operating the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Volke; Frank

St. Ingbert

DE

Benecke; Martin .

Homberg

DE

US-CL-CURRENT: <u>324/318</u>; <u>324/321</u>

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Те	rm	Documents
ВО	RE	836711
ВО	RES	279148
PA	RALLEL	3622797
PA	RALLELS	19701
Ш,	4 AND (BORE SAME RALLEL)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1
Ш,	84 AND ((BORE) SAME ARALLEL))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1

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